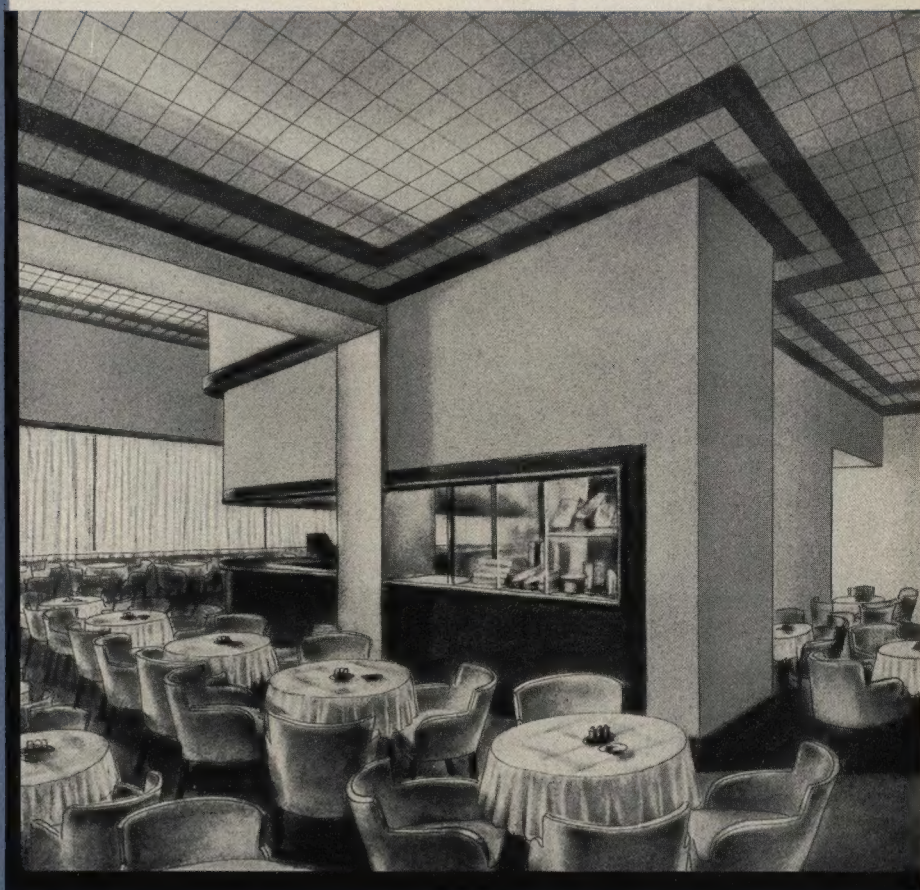


UNITED STATES GYPSUM COMPANY ^{U.S.} CHICAGO

MANUFACTURED BY

QUIETONE

EFFICIENT AND
ECONOMICAL
SOUND ABSORPTION



ABSORBS NOISE • ADDS ATTRACTIVE DECORATION

HIGHLY EFFICIENT SOUND ABSORPTION —ROOMS QUIETED AT MODERATE COST

● Quietone is a decorative interior tile finish used to absorb sound and correct noisy conditions in offices, restaurants, etc., and to improve hearing in auditoriums, theatres and buildings of similar use.

It is a wood fiber product, but should not be confused with ordinary insulating tiles used primarily for insulating purposes. It has unusually low density and exceptionally high and uniform absorption. It is a homogeneous material, made by a unit felting process to produce a material of high acoustical excellence. Its attractive surface is free from puncturing and other surface oddities that are not uncommon in acoustical materials.

EFFICIENT ABSORPTION

Quietone classes among the high-efficiency absorbents, having a 70 per cent noise reduction through the significant pitches, C_3 to C_6 . This means that through these pitches it absorbs 70 per cent of all sound striking it; it means that the reverberation time and the noise level in the room where it is used are greatly reduced.

The actual quieting result is immediately noticeable to anyone entering a room treated with Quietone.

It is the quietness that one finds in a thick-carpeted room with heavy drapes and overstuffed furniture.

ABSORPTION COEFFICIENTS OF QUIETONE

Pitch.....	C_2	C_3	C_4	C_5	C_6	Noise Reduction Coefficient
Frequency.....	128	256	512	1024	2048	
1-in. thick mounted on surface.....	.30	.52	.73	.82	.75	.70

(The above absorption coefficients are quoted from the Official Bulletin of the Acoustical Materials Association).

UNIFORM ABSORPTION

It is important to note in considering the efficiency of Quietone that it has unusually efficient absorption through the significant ranges. This means for example, that it is almost equally efficient in absorbing the sound of the human voice, around C_4 and the noise of a typewriter an octave or more higher.

LOW COST

In spite of its high efficiency Quietone is a low cost material, so low cost that it makes possible the use of acoustical treatment in almost any type of building where noise is a problem.



Women's Club Auditorium, Fort Worth, Texas. Quietone not only adds attractiveness to the interior, but it has a quieting effect that makes hearing easier.



In this church Quietone in two colors is used in an attractive pattern. Quietone is used in auditorium-type structures for acoustical correction.



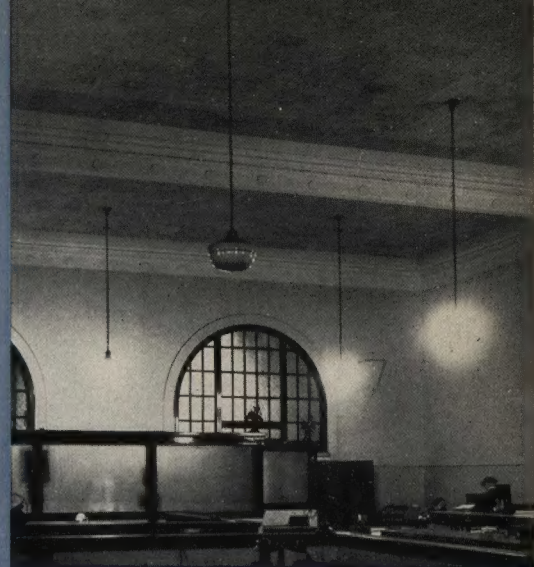
Offices that develop a high noise level from the mingling of voices and machine noise are effectively quieted with a ceiling of Quietone.



Quietone used on ceiling and walls of broadcasting studio, KMOX, St. Louis.



Quietone in Cleveland Post Office.



Ceiling of Quietone in City Hall, Chicago.

FOR OFFICES, RESTAURANTS AND OTHER INTERIORS NEEDING GREATER QUIET

OFFICES A reduction in the noise level in offices not only produces comfort but it makes a vast improvement in working conditions that translates itself into better work and greater accomplishments. Quietone is especially useful in large open offices housing a great many workers. It reduces machine noise to a minimum and protects employes that require quiet for most effective work. Quietone also is useful in offices adjacent to plants and machinery.

BANKS Commercial banks with a large number of patrons in the banking room are vastly improved in quietness by the use of Quietone. Such interiors usually have highly reflective surfaces, marble or terrazzo floors, masonry columns, etc., and usually have greater need for acoustical treatment than almost any other type of business structure. Quietone combines sound absorption and decorative treatment in a way that solves the problem of acoustical treatment in banking rooms. It is also practical and effective in bank offices, bookkeeping rooms and tabulating rooms.

RESTAURANTS The jangle of dishes, the clatter of silverware and the hum of voices in noisy restaurants can be largely eliminated by the use of Quietone. The quieting effect is an investment in customer satisfaction that restaurant owners are rapidly coming to recognize. Application can be made in the new restaurant or just as effectively, and economically, in the restaurant already completed and rendered less hospitable by its jumble of noises.

SCHOOLS The advisability of conditions of quiet in school rooms is too obvious to discuss. However it is important to note that Quietone absorbs noise entering from the street and playground as well as noise originating within the room. Its effect is to lower the noise level regardless of the source of sound. Moreover its low cost makes it particularly well adapted to school use.

THEATRES Theatres, especially motion picture theatres using sound reproduction apparatus, need nearly ideal acoustical conditions to give their patrons the best reception. For them Quietone is a very practical material because its effectiveness over the frequency range of voice and music will give the desired amount of absorption in the limited space allotted by wall panels and coffered ceilings; it has a decorative quality that is especially well adapted to the atmosphere of the theatre.

AUDITORIUMS In rooms where the proper reception of speech and music is the principal acoustical problem, as in auditoriums, Quietone is useful in producing proper reverberation time for pleasing reception and in correcting acoustical defects.

HOSPITALS Almost every hospital corridor needs some acoustical treatment, otherwise it acts as a telephone carrying noises from room to room. Corridors that lead from serving kitchens and other rooms that may be the source of noise are greatly benefited by Quietone ceilings; so treated they help to isolate individual rooms from unwanted noise.

QUIETONE

IS FURNISHED IN FIVE ATTRACTIVE PASTEL SHADES

● Quietone is made in two standard textures and two standard colors. The textures are a sanded and a brushed surface texture. The former is a Light Ivory in color and the latter a Light Buff. On order either of these textures or surfaces will be mill-tinted to any of five available colors.

These colors which are the light pastel shades, Rose, Cream, Blue, Buff, Green, and White are high in light reflecting value.

PLEASING APPEARANCE

The surface of Quietone is similar to that of other fiber tiles used primarily for decoration. It is free from perforations and other surface peculiarities that fall into a regular pattern. Its efficiency is secured by the natural surface of the tile in combination with a low and accurately controlled density. The result is an appearance just as pleasing as if the tile were made first of all for a decorative rather than an acoustical effect. This appearance is suited to any type of interior.

EASILY CLEANED

Quietone can be cleaned with a vacuum cleaner. The mill-tinted pastel shades are deep tinted to withstand several cleanings before re-tinting becomes necessary. Painting reduces absorptive capacity and should not be resorted to. If a change in color is desired it should be accomplished by tinting or staining.

Any color or mixture of colors ground in oil or japan may be applied over Quietone with spray after diluting with four parts of mineral spirits (turpentine substitute) to one part of color. Spray tinting uses less color and will usually be more economical; it is, therefore, recommended whenever practical.

STANDARD SIZES

The standard size of Quietone is 12x12 inches. Either the brushed or sanded surface can be had in this size. All Quietone units are finished on all four edges with a $\frac{3}{16}$ -inch bevel.



Quietone, Foulke Fur Co., St. Louis. This, KMOX and National Ammonia installations by the Hamilton Company.



The noise level built up by machines is greatly reduced in this office by the use of Quietone. National Ammonia Offices, St. Louis.

USED IN OLD AND NEW CONSTRUCTION

● In deciding on the use of Quietone, it makes little difference whether the building is under construction or completed and in use. In fact the great majority of installations are in buildings already erected. In many cases the need for acoustical absorption is not apparent until the building is in use or the owner has had an opportunity to compare his structure with another that has been treated with Quietone.

READILY ERECTED IN BUSY OFFICES

Erection, either by the Sales Engineering Division of the United States Gypsum Company or one of its licensed contractors, is arranged for busy offices so that the routine of the office is not disturbed. Quietone goes up rapidly over old surfaces properly prepared by the contractor erecting it.

QUIETONE SPECIFICATIONS

1. WORK INCLUDED.

Note: List here all walls and ceilings to be covered with Quietone.

2. BASE.

Note: Quietone may be applied to the following surfaces:

2-A. On new work, a good level brown coat of plaster offers the best base for Quietone.

2-B. Quietone may be applied direct to any plastered surface if the plaster is in good condition.

2-C. Quietone may be applied to furring strips. If this method is used with an open air space back of the

furring strips, a paper membrane should be stretched over and attached to the furring strips to prevent passage of air through the tile with the resultant deposit of dirt on the tiled surface.

3. ACOUSTICAL MATERIAL.

3-A. Acoustical material shall be Quietone one inch thick, in a natural color (or mill tinted in standard shades of cream, green, rose, buff, blue, or white) and sanded (or brushed) surface.

3-B. Joints between tile shall be a $\frac{3}{16}$ " "V" formed by accurate beveling.

3-C. Tile shall in general be 12"x12" as shown on the various details and approved drawings.

4. APPLICATION OF QUIETONE.

4-A. Quietone may be applied in a diagonal or a straight pattern with a border effect if desired. Other patterns may be worked out but they will require special tile sizes.

4-B. Quietone shall be completely erected by the United States Gypsum Company or by one of its authorized erectors.

4-C. The tile shall be cemented or cemented and nailed in position, care being taken to align tile and maintain an even surface in full conformance with the manufacturer's specifications. (Complete specifications and other details furnished on request.)

OTHER USG SOUND CONTROL MATERIALS

ACOUSTONE A fireproof acoustical tile, integrally colored, made in attractive light-reflective colors and in a paintable type, also integrally colored, that can be brush painted with lead and oil to any color. Has the soft pleasing texture of cut stone.

PERFATONE A fireproof perforated metal tile acoustical absorbent. Has the natural advantages of a fireproof material, can be painted, and can be cleaned by washing.

SABINITE An acoustical plaster finish put on in two coats over a gypsum base coat. Another type is made for application over Portland Cement. Used in new construction. Has the natural advantages inherent in a plaster finish.

USG SYSTEM OF SOUND INSULATION This system includes a complete service for the prevention of sound travel through walls, ceilings and floors.

TREMBAR MACHINE BASES The object of Trembar Bases is to isolate machine-created noise and vibration from floors and building framework and to prevent machine noise from being carried directly from the machines into the structure. Each base is designed for the load and special conditions it must meet. Installation is made by the Engineering Sales Division of the United States Gypsum Company or one of its licensed contractors.

ENGINEERING SALES DIVISION

UNITED STATES GYPSUM COMPANY • CHICAGO



*HAMILTON COMPANY, Inc.
4239 Lindell Boulevard
St. Louis, Missouri*

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